G-Pex
German Technology
PEX PIPING SYSTEM FOR WATER & GAS

User Manual

G-Pex
WaterMark
AS4176.2 & AS4176.3 WM 74627
AS4176.8 WM 74629
AS2492 WM74628 AS2537 WM74626
G-Pex Pex Piping System

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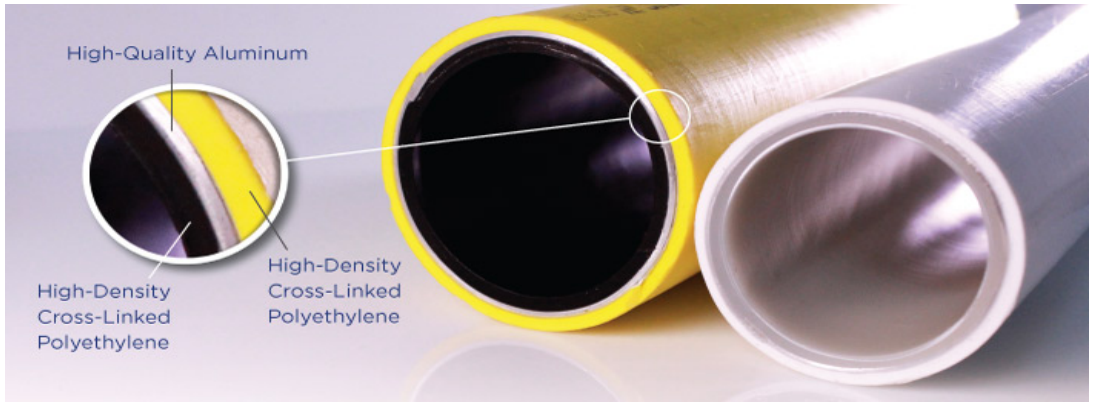
WaterMark

Fonda Int'l P/L (Ginde Australia)
Ph: 02-89704038 | Fax: 02-96088200
Website: www,ginde.com.au | Email: info@ginde.com.au

Pex-Al-Pex Pipe

G-Pex aluminum/plastic composite pipe is a five layered pipe. The pipe consists of a layer of welded aluminum with polyethylene inner and outer layers which are bonded together with a special purpose hot melt adhesive.



Pex pipe is widely used to in plumbing and gas applications.

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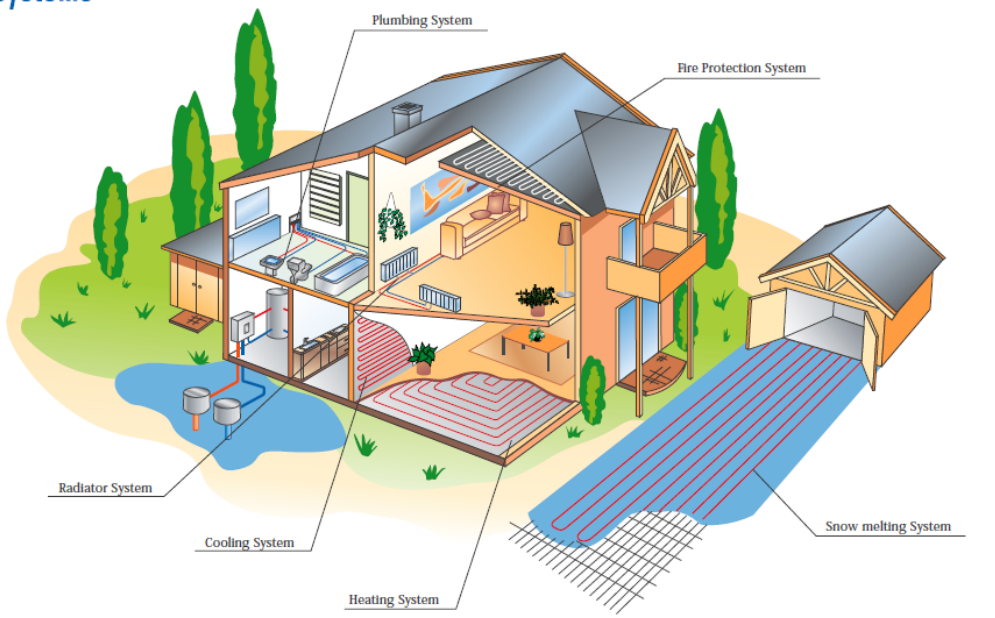
Systems



Features

- Hygienic and non-toxic
- Lowering material and labor costs
- Low linear heat expansion coefficient
- Rigid as metal
- Flexible and bendable
- High temperature and high pressure resistance
- Corrosion resistance
- The heat conduction coefficient is 1/200 of metal pipe
- Light weight
- Smooth surface
- Easily detected
- Convenient and reliable installation
- A long lifespan
- Oxidation resistance
- no welding necessary

Pex-B Pipe (Black, Anti UV)

Pex-B Pipe is a lower cost general purpose piping system for water and gas. PEX-B pipe, two layers, the material of its internal layer is silicane crosslinked polyethylene, the white one which does not harm the environment, has the capacity of heat-resistance for a long time and aging resistance with innocuity as well as corrosion resistance. The external layer, black one, mixed with polyethylene, carbon black and oxidation inhibitor, has the excellent capacity of ultraviolet radiation resistance, Compared with current common metal pipes, it is more heat-preservative and energy-saving. It is one type of pipe with benefit to environmental protection.

PEX-B pipe (Blue, Red) also available in corrugated pipes

PEX-B cross-linking polyethylene pipe adopts HDPE as the main material. Chemical covalent bonds formed in polyethylene molecular chains through cross-linking making molecules to create the three dimensional net structure, have good heat & pressure resistance, and other physical and chemical performance.

One type of fitting fits (water, gas , Pex-Al-Pex and Pex-B). Easy for plumbers to manage.

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Tools

Manual press clamp tool set with jaws (16, 20, 25, 32 mm)

Pipe cutter

Pipe cutter

Battery operated crimping tool set with jaws (16, 20, 25, 32 mm)

Rounder & beveller

T-Reamer

Triangle Reamer

U Profile Jaw

Battery operated crimping tool– easy to use, reach corners, save time and labor, light weight (3.2 kg)

Crimping tool set includes: 4 jaws (16, 20, 25, 32 mm), 1 charger, 2 batteries. Also available copper press jaws (DN15, DN20, DN25)

Specifications- Pex-AL-Pex

COLD WATER PIPE

(blue)

HOT WATER PIPE

(red)

GAS PIPE

(yellow)

RAIN WATER PIPE

(green)

RECYCLED WATER PIPE

(lilac)

Code	Description	Packing	Color	Suitable for	Tmax	Weight (Kg) / coil
1216-LB	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	White	Cold Water	60°C	5.50
1620-LB	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	White	Cold Water	60°C	7.35
2025-LB	25mm Pipe x 2.5mm Thickness Pex-Al-Pex	50 Meters Coil	White	Cold Water	60°C	11.15

Code	Description	Packing	Color	Suitable for	Tmax	Weight (Kg) / coil
1216-RR	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Orange	Hot Water	90°C	5.50
1620-RR	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Orange	Hot Water	90°C	7.35
2025-RR	25mm Pipe x 2.5mm Thickness Pex-Al-Pex	50 Meters Coil	Orange	Hot Water	90°C	11.15

Code	Description	Packing	Color	Suitable for	Tmax	Weight (Kg) / coil
1216-Q	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Yellow	Gas	40°C	5.50
1620-Q	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Yellow	Gas	40°C	7.35
2025-Q	25mm Pipe x 2.5mm Thickness Pex-Al-Pex	50 Meters Coil	Yellow	Gas	40°C	10.4
2632-Q	32mm Pipe x 3.0mm Thickness Pex-Al-Pex	25Meters Coil	Yellow	Gas	40°C	8.2

Code	Description	Packing	Color	Suitable for	Tmax	Weight (Kg) / coil
1216-G	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Green	Rain Water	95°C	5.50
1620-G	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Green	Rain Water	95°C	7.35

Code	Description	Packing	Color	Suitable for	Tmax	Weight (Kg) / coil
1216-L	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Lilac	Recycled Water	95°C	5.50
1620-L	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50 Meters Coil	Lilac	Recycled Water	95°C	7.35

Specifications- Pex-B

Code	Description	Packing	Color	Suitable for	Tmax	Weight (Kg) / coil
1216-X	16mm Pipe x 2.0mm Thickness	50 Meters Coil	Black (Anti UV)	Cold & Hot Water	95°C	5.25
1620-X	20mm Pipe x 2.0mm Thickness	50 Meters Coil	Black (Anti UV)	Cold & Hot Water	95°C	6.70
2025-X	25mm Pipe x 2.5mm Thickness	50 Meters Coil	Black (Anti UV)	Cold & Hot Water	95°C	8.15
1216-XB	16mm Pipe x 2.0mm Thickness	50 Meters Coil	Blue	Cold Water	95°C	5.25
1620-XB	20mm Pipe x 2.0mm Thickness	50 Meters Coil	Blue	Cold Water	95°C	6.70
1216-XR	16mm Pipe x 2.0mm Thickness	50 Meters Coil	Red	Hot Water	95°C	5.25
1620-XR	20mm Pipe x 2.0mm Thickness	50 Meters Coil	Red	Hot Water	95°C	6.70
1620-XBC	20mm Corrugated Pipe x 2.0mm	50 Meters Coil	Blue	Cold Water	95°C	9.60
1620-XRC	20mm Corrugated Pipe x 2.0mm	50 Meters Coil	Red	Hot Water	95°C	9.60

Specifications- Crimp on DR Brass Fittings

Straight Coupling (No.1)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N1-16	10	16MM	0.334	300
	N1-20	10	20MM	0.460	300
	N1-25	5	25MM	0.470	150
	N1-25	5	25MM	0.72	150

Reducing Coupling (No.1R)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N1R-2016	10	20MM x 16MM	0.421	300
	N1R-2516	5	25MM x 16MM	0.335	150
	N1R-2520	5	25MM x 20MM	0.371	150
	N1R-3225	5	32MM x 25MM	0.605	150

Female Union (No.2)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N2-16050	10	16MM x 1/2”	0.503	300
	N2-16075	10	16MM x 3/4”	0.778	240
	N2-20050	10	20MM x 1/2”	0.563	200
	N2-20075	10	20MM x 3/4”	0.809	200
	N2-25075	5	25MM x 3/4”	0.505	150
	N2-25100	5	25MM x 1”	0.605	120

Specifications- Crimp on DR Brass Fittings

Male Union (No.3)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N3-16050	10	16MM x 1/2”	0.473	300
	N3-16075	10	16MM x 3/4”	0.634	200
	N3-20050	10	20MM x 1/2”	0.528	300
	N3-20075	10	20MM x 3/4”	0.684	200
	N3-25075	5	25MM x 3/4”	0.447	150
	N3-25100	5	25MM x 1”	0.625	120

Loose Nut Female Adaptor (No.62)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Weight (kg / bag)
	N62-16050	10	16MM x 1/2”	0.596	300
	N62-20050	10	20MM x 1/2”	0.672	300
	N62-20075	10	20MM x 3/4”	0.867	200

Equal Elbow (No.12)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N12-16	10	16MM	0.496	300
	N12-20	10	20MM	0.695	100
	N12-25	5	25MM	0.634	100
	N12-32	5	32MM	0.534	60

Unequal Elbow (No.12R)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N12R-2016	10	20MM x 16MM	0.620	200
	N12R-2516	5	25MM x 16MM	0.445	150
	N12R-2520	5	25MM x 20MM	0.495	150

Male Elbow (No.13)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N13-16050	10	16MM x 1/2”	0.496	300
	N13-20050	10	20MM x 1/2”	0.642	200
	N13-20075	10	20MM x 3/4”	0.816	200
	N13-25075	5	25MM x 3/4”	0.540	150
	N13-25100	5	25MM x 1”	0.658	100

Female Elbow (No.14)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N14-16050	10	16MM x 1/2”	0.645	300
	N14-20050	10	20MM x 1/2”	0.783	200
	N14-20075	10	20MM x 3/4”	0.919	150
	N14-25075	10	25MM x 3/4”	1.257	150
	N14-25100	10	25MM x 1”	1.565	100

Specifications- Crimp on DR Brass Fittings

Wall Plated Female Elbow (No.15 BP)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N15-16050	10	16MM x 1/2”	1.026	120
	N15-20050	10	20MM x 1/2”	1.118	120
	N15-20075	10	20MM x 3/4”	1.300	100

Wall Plated Male Elbow (No.19 BP)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N19-1605065	5	16MM x 1/2” x 65MM	0.590	100
	N19-1605095	5	16MM x 1/2” x 95MM	0.704	100
	N19-2005065	5	20MM x 1/2” x 65MM	0.600	100
	N19-2005095	5	20MM x 1/2” x 95MM	0.790	100
	N19-2007595	5	20MM x 3/4” x 95MM	1.140	60
	N19-16050180	5	16MM x 1/2” x 180MM	1.300	50

Loose Nut Female Elbow (No.63)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N63-16050	10	16MM x 1/2”	0.693	240
	N63-20075	10	20MM x 1/2”	0.883	200

Specifications- Crimp on DR Brass Fittings

End Cap (No.61)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N61-16	10	16MM	0.280	500
	N61-20	10	20MM	0.432	400
	N61-25	10	25MM	0.773	200
	N61-32	10	32MM	1.2	200

Copper Adaptor Brazing Tail- Female	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N100-1616	10	16MM x 16MM	0.318	300
	N100-2020	10	20MM x 20MM	0.476	300
	N100-2525	10	25MM x 25MM	0.404	150
	N100-3232	10	32MM x 32MM	0.599	120

Equal Tee (No.24)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N24-16	5	16MM	0.335	150
	N24-20	5	20MM	0.472	120
	N24-25	5	25MM	0.870	60
	N24-32	5	32MM	1.46	30

Specifications- Crimp on DR Brass Fittings

Unequal Tee (No.25, No 26, No.27, No. 28)	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	N28-162016	5	16 x 20 x 16MM (No.28)	0.406	100
	N28-162516	5	16 x 25 x 16MM (No.28)	0.538	100
	N25-201620	5	20 x 16 x 20MM (No. 25)	0.450	150
	N26-202016	5	20 x 20 x 16MM (No.26)	0.454	120
	N28-202520	5	20 x 25 x 20MM (No.28)	0.649	90
	N27-251620	5	25 x 16 x 20MM (No.27)	0.580	100
	N27-201616	5	20 x 16 x 16MM (No.27)	0.408	150
	N25-251625	5	25 x 16 x 25MM (No.25)	0.693	80
	N27-252020	5	25 x 20 x 20MM (No.27)	0.645	90
	N25-252025	5	25 x 20 x 25MM (No.25)	0.751	70
	N26-252520	5	25 x 25 x 20MM (No.26)	0.795	70
	N25-322032	5	32 x 20 x 32MM (No.25)	1.16	40
	N25-322532	5	32 x 25 x 32MM (No.25)	1.263	40

Pex to Copper Adaptor	Code	Packing (units / bag)	Description	Weight (kg / bag)	Units/ per box
	BN100-1615	10	16MM	0.3	100
	BN100-2020	10	20MM	0.54	100
	BN10-2525	10	25MM	0.86	100
	BN10-3232	10	32MM	1.34	100

Installation Instruction

1. Cut the pipe to required length with the special pipe cutter.

2. Ream the pipe by pushing the reamer into the pipe and turning. This cuts the pipe end straight while cutting chamfers on the inside and outside of the pipe end. The design of the reamer will privet shavings from falling into the pipe.

3. Inspect the stainless steel sleeve for any cracks and then fit it over the pipe to be flush with pipe

4. Carefully push the fitting into the pipe until it clips into the white collar without dislocating the O-rings, and without moving the sleeve away from the pipe

5. Crimp the sleeve with a crimping tool.
a. Locate the tools jaws tight against the collar.
b. Compress the sleeve by closing the crimping tool until the handles meet and make a "clicking" sound. Do this only once.

6. Visually inspect the fitting and test the crimp with the crimp gauge if needed.

Warranty

G-Pex Pipe has 25 years warranty and is also backed by a products and public liability insurance policy to the value of AUD $20 million dollars from GIO.

G-Pex

GIO It's a trust thing

Technical Data	**Thermal conductivity**	**0.45W/m*k**
Pex-Al-Pex	**Coefficient of thermal expansion**	**0.025mm/m*k**
	Bend radius	**>= 5D (D means outside diameter)**
	Working temperature (°C)	**-40°C - 95°C**
	Oxygen-permeability	**0% (Nil)**
	Burning Resistance	**Grade B1 of GB8624**
	Burst pressure at 25 °C	**16mm=7.6 Mpa 20mm=5.8 Mpa 25mm=5.2 Mpa**
	Max. Working Pressure	**PN 16**
	Other	**Static-free, non-corrosive, 50 years life span**
Technical Data	**Thermal conductivity**	**0.35-0.46W/m*k**
Pex-B	**Coefficient of thermal expansion**	**0.2 mm/m*k**
	Bend radius	**>= 8D (D means outside diameter)**
	Working temperature (°C)	**-40°C - 95°C**
	Oxygen-permeability	**0% (Nil)**
	Burning Resistance	**123°C**
	Burst pressure at 25 °C	**16mm=6.2 Mpa 20mm=4.8 Mpa**
	Max. Working Pressure	**16 mm-PN 16. 20mm, 25mm-32mm PN 12.5**
	Other	**Static-free, non-corrosive, 30 years life Span**

Project Photos

: Strathfield NSW

Burwood, NSW

Canterbury, NSW

North Ryde, NSW

Burwood, NSW

Liverpool, NSW

Pex-Al-Pex: Cold Water Pipes- Blue | Pex-Al-Pex: Hot water pipes- Red | Pex-Al-Pex: Gas pipes- Yellow

Certificates

CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Fonda International P/L
14A Enterprise Circuit,
Preston 2170
AUSTRALIA

WaterMark Certificate of Conformity – LEVEL 1

Evaluated to:

AS/NZS 4176.2: 2010 - Multilayer pipes for pressure applications - Multilayer piping systems for hot and cold water plumbing applications - Pipes (ISO 21003-2:2008, MOD)

AS/NZS 4176.3: 2010 - Multilayer pipes for pressure applications - Multilayer piping systems for hot and cold water plumbing applications - Fittings (ISO 21003-3:2008, MOD)

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark, and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

Certificate No. WM 74627

Issued: 20th August 2015 — Originally Certified: 20th August 2015

Expires: 20th August 2016 — Current Certification: 20th August 2015

John PRASAD
Certification Manager

JAS-ANZ — ApprovalMark Certification — WaterMark

ApprovalMark

AS4176.2 & AS4176.3

WM 74627

Pex-Al-Pex pipes and fittings for water

ISO TYPE 5

CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

FONDA INTERNATIONAL P/L
14A Enterprise Circuit, Prestons 2170
AUSTRALIA

Evaluated to:

AS 4176.8 - 2010 Multilayer pipes for pressure application.Part 8: Multilayer pipe systems for consumer gas installations with maximum operating pressure up to and including 5 bar (500 kPa) specifications for systems (ISO 17484-1:2006, MOD)

The ISO Type 5 licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of ISO Type 5 scheme, and shall comply with standard requirement at all times including when standard is amended. The ISO Type 5 license only covers the product which is identified in the product schedule.

Certificate No. AMI 74629

Issued: 20th August 2015
Expires: 20th August 2016

John PRASAD
Certification Manager

ApprovalMark Certification — JAS-ANZ

ApprovalMark

AS4176.8

WM 74629

Pex-Al-Pex pipes and fittings for gas

CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Fonda International P/L
14A Enterprise Circuit,
Preston 2170
AUSTRALIA

WaterMark Certificate of Conformity – LEVEL 1

Evaluated to:

AS/NZS 2492: 2007 - Cross-linked polyethylene (PE-X) pipes for pressure applications

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark, and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

Certificate No. WM 74628

Issued: 20th August 2015 — Originally Certified: 20th August 2015

Expires: 20th August 2016 — Current Certification: 20th August 2015

John PRASAD
Certification Manager

JAS-ANZ — ApprovalMark Certification — WaterMark

ApprovalMark

AS2492

WM 74628

Pex-B pipes

CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Fonda International P/L
14A Enterprise Circuit,
Preston 2170
AUSTRALIA

WaterMark Certificate of Conformity – LEVEL 1

Evaluated to:

AS/NZS 2537.2: 2011 - Mechanical jointing fittings for use with crosslinked polyethylene (PE-X) for pressure applications - Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Fittings (ISO 15875-3:2003, MOD)

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark, and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

Certificate No. WM 74626

Issued: 20th August 2015 — Originally Certified: 20th August 2015

Expires: 20th August 2016 — Current Certification: 20th August 2015

John PRASAD
Certification Manager

JAS-ANZ — ApprovalMark Certification — WaterMark

ApprovalMark

AS2537

WM 74626

Pex-B fittings

We Always Provide The Best Service

G-Pex